MIT's Oldest and Largest Newspaper

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Volume 135, Number 12

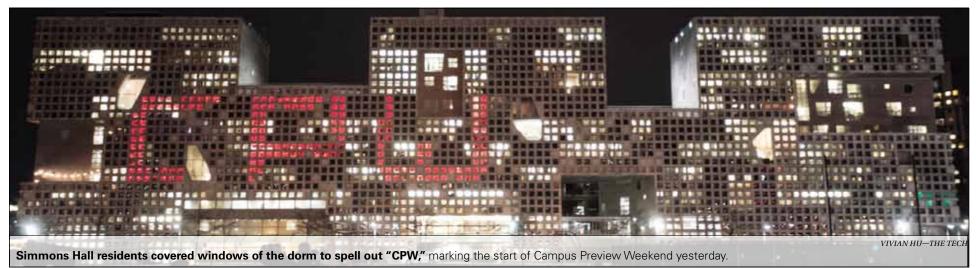


WEATHER, p. 2

FRI: 65°F | 52°F

SAT: 69°F | 43°F Mostly sunny SUN: 58°F | 42°F

Friday, April 17, 2015



### Five of six top Putnam math contest scorers are from MIT

MIT took first place in the 2014 William Lowell Putnam Mathematical Competition, results for which were recently released. Five MIT individuals also received the Putnam Fellowship, which was awarded to the top six scorers.

Zipei Nie '15, Mitchell M. Lee '16, and David H. Yang '17 made up the first-place-winning team, and Nie, Yang, Mark Sellke '17, Bobby Shen '17, and Lingfu Zhang '17 were Fellows. These six were among the 32 MIT students placing in the top 89, all in an overall pool of 4,320

competitors from 577 schools.

The Putnam test, which began in 1938, has 12 problems and lasts for six hours. It emphasizes speed, unlike the mathematical research conducted at institutions like MIT. "Class at MIT didn't help much directly; the Putnam doesn't cover any super-advanced math, so I knew all the theory needed before coming here," Sellke said.

The exam is known for being difficult. The median for this

Putnam, Page 16

# **CPW** events not permitted between 1 and 6 a.m. this year Ban has been Institute policy since the '90s, but some

students worry it will detract from 'MIT experience'

**By Amy Wang** STAFF REPORTER

MIT is not permitting events between 1 a.m. and 6 a.m. during this year's Campus Preview Weekend.

The policy will be enforced in order to bring CPW into compliance with Institute policy, which states that all campus events must end by 1 a.m. Exceptions may be granted by the CPW Events Review Committee "if there is a compelling reason the event cannot be held prior to 1

Dean for Undergraduate Education Dennis M. Freeman was behind the change, Assistant Director of Admissions Katie A. Kelley said in

an email to the Dormitory Council. Freeman referred The Tech to Dean of Admissions Stuart Schmill '86.

'Given that we are hosting about a thousand high schools students on our campus, ending formal events at 1 a.m. seems like the right thing to do," Schmill said. "I do not think the pre-frosh perception of MIT or of CPW will change."

Institute policy has prohibited events after 1 a.m. since the 1990s, but due to a lack of communication between the Student Activities Office (SAO) and the CPW Events Review Committee, the committee has inadvertently ignored the ban and approved events at all hours in previous years.

Eli H. Ross '14 wrote that the administration had planned on enforcing the policy last year during his tenure as DormCon president, but ultimately did not. Describing what happened last year, he said that "the policy choice was made and then simply relayed to relevant groups." Students argued that they were told about the ban too late to adjust their programming, so the ban was not enforced.

The administration also agreed to allow MIT students to serve on the CPW Advisory Committee, which had previously only consisted of

CPW, Page 18

### REPORTER'S NOTEBOOK

### Sharma resigns amid parliamentary pablum

A lighter take on the UA's shake-up

**By Austin Hess** SENIOR EDITOR

"And let's get to work!" announced Matthew J. Davis '16 at the conclusion of his first speech as president of the Undergraduate Association. The rare half-second pauses in his delivery would have likely been polished out had he extra month to prepare for the moment, but no such luck embattled former president Shruti Sharma '15 resigned a month early during Wednesday's UA Council

meeting, sweeping him and vice

president-elect Sophia Liu '17 into

office within a week of their election. Davis said he learned of the pending transfer Monday at 11 p.m.

Sharma ended her term with a speech in which she thanked the councillors for their "trust and support" during her term. It was unclear whether the council, which had voted 14-3-1 in a narrowly unsuccessful bid to trigger her recall two weeks prior felt similarly

"If you want to go fast, go alone. If you want to go far, go together," Sharma quoted in a reverent allusion to her high school valedictory

UA, Page 16

A hack appeared in Lobby 7 early Monday morning. Ribbons of black and orange planes spelled out "DTYD," publicizing the annual party by the same name to be hosted by the BurtonThird Bombers this upcoming Sunday.

### **IN SHORT**

MIT will be closed for Patriot's Day next Monday, April 20. Tuesday, April 21 is also an Institute holiday.

MIT Earth Days 2015 are from

April 21 to April 24.

Drop date is next Thursday, April 23. This is the last day to drop classes or switch to listener status.

Send news and tips to news@ tech.mit.edu.

### THIS WEEK'S MATH PUZZLES

Try your hand. FUN, p. 7

### **GAME OF THRONES**

A slow start, but you can feel the momentum building. ARTS, p. 12

### **DAREDEVIL**

Netflix meets Marvel. ARTS, p. 12



### **SEUSSICAL**

The author and illustrator's most beloved works, on stage at Next House. PHOTO, p. 10-11

### **ANSWERING A** SEXUAL ASSAULT HOTLINE

Why I don't get too brought down. CAMPUS LIFE, p. 13

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Campus Life	.13
Sports	20

**WEATHER** 

### After brief round of showers, beautiful weekend in store

By Casey Hilgenbrink STAFF METEOROLOGIST

This week, Bostonians have been reminded of how nice it is to be above average in something that isn't snowfall! Since Sunday, we've enjoyed daily high temperatures 5–10°F above average and abundant sunshine, with more on the way this weekend.

First, though, we'll likely have to deal with a little rain, thanks to some showers associated with a cold front approaching from the west. Don't worry about CPW be-

ing a washout, though - any showers should clear out by around lunchtime, leaving plenty of time for outdoor activities in the afternoon. The weekend looks beautiful, with plenty of sunshine and a high in the upper 60s°F and upper 50s°F on Saturday and Sunday, respectively. Looking ahead to Marathon Monday, if you're headed to Copley Square to cheer on runners as they cross the finish line, consider bringing an umbrella — rain, gusty winds, and a high in the low 50s°F all appear likely Monday afternoon.

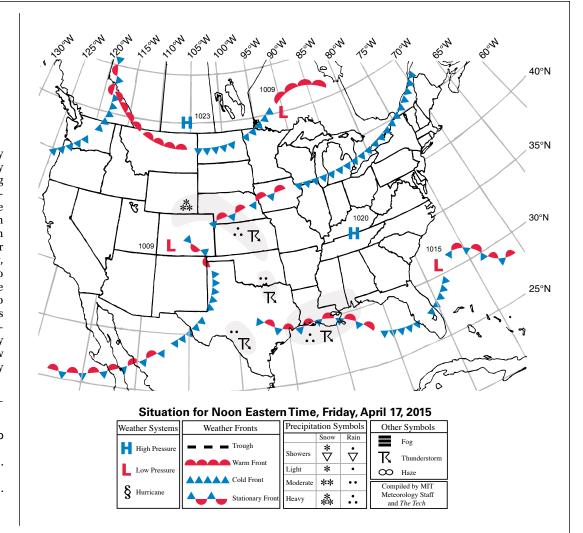
### **Extended Forecast**

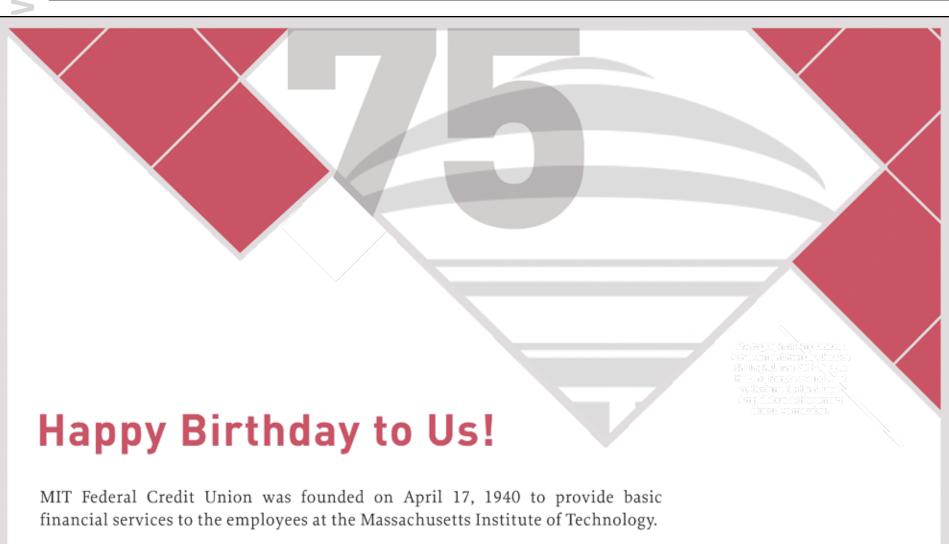
Today: Cloudy with west winds at 10-15 mph and gusts up to 30 mph. High 65°F (18°C).

Tonight: Decreasing clouds with west winds at 5-10 mph. Low 52°F (11°C).

Tomorrow: Mostly sunny with west winds around 5 mph. High 69°F (21°C).

Sunday: Sunny. High upper 50s °F (15°C).





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We're looking for people to help us design infographics to highlight writers' content!

Friday. April 17. 2015

# MIT Association of Taiwanese Students

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Delicious, authentic Taiwanese food

Wednesday, April 22



Stata Center 1st Floor



10 AM - 3 PM/sellout



A Taiwanese Daymarket







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The Tech (ISSN 0148-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer by The Tech, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139. Subscriptions are \$50.00 per year (third class). POSTMASTER: Please send all address changes to our mailing address: The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029. TELEPHONE: Editorial: (617) 253-1541. Business: (617) 258-8324. Facsimile: (617) 258-8226. Advertising, subscription, and typesetting rates available. Entire contents © 2015 The Tech. Printed by Upper Valley Press, Inc.

### **LETTERS TO THE EDITOR**

### Parental leave policies

Yarden Katz's guest column published on April 9 offers me the chance to clarify an announcement sent on April 7 concerning a new Paid Parental Leave benefit approved by the Employee Benefits Oversight Committee, which adds to leave policies already available to eligible MIT employees.

In hindsight, we missed an opportunity to emphasize that the 5 days of Paid Parental Leave is in addition to other parental leaves for MIT employees. Birth mothers are eligible for paid sick leave — usually 8 weeks — upon the birth of a child. In addition, eligible mothers and fathers have a right to 12 weeks of unpaid leave under the Family Medical Leave Act, and 8 weeks of unpaid leave under state law (may run simultaneously for the birth, adoption, or placement of a foster child). We anticipate that MIT parents will use the new paid leave benefit in conjunction with these existing leaves.

We recognize that there is no perfect formula when it comes to benefits for our diverse community but are committed to providing benefits for our employees at all stages of life. I encourage readers to visit the Benefits website to see the range of benefits available to MIT employees.

Lorraine A. Goffe-Rush is the MIT Vice President for Human Resources.

### Security policies on campus

It's easy to call them small changes.
An extra desk in the lobby. An extra few seconds to retrieve identification. An extra logistical complication when friends spontaneously decide to visit. These changes are annoying and inconvenient, but, in the scope of general life, they seem minor.

But there is a subtler element at play. The extra desk in the lobby stands as a daily reminder of a nasty power play. The residents of my dorm had made clear, over and over again, that we had decided we preferred student desk workers. The message from MIT was equally clear: We own this campus. The institute where I once found paradise treated us like children, lied to us, and told us we could not be trusted to know what was best for us. Disillusionment hurt. We complained through every proper channel and were met with stone walls, false information, or worse: an endless loop of administrators pointing to each other. This wasn't the MIT I believed in, so my beliefs had to change.

I remember one day when I came back to the dorm exhausted and cold. My ID was buried deep in my overfull backpack, and after unsuccessfully trying to maneuver it over the sensor I finally dropped the backpack, knelt on the floor, and pulled out some things until I dug out my wallet.

An Allied-Barton worker stared coolly through the glass. Overwhelming bitterness swept over me. I had entered and exited that door every day for a year, but it seemed my residence still didn't know who I was. I say residence because few experiences have made me feel less at home.

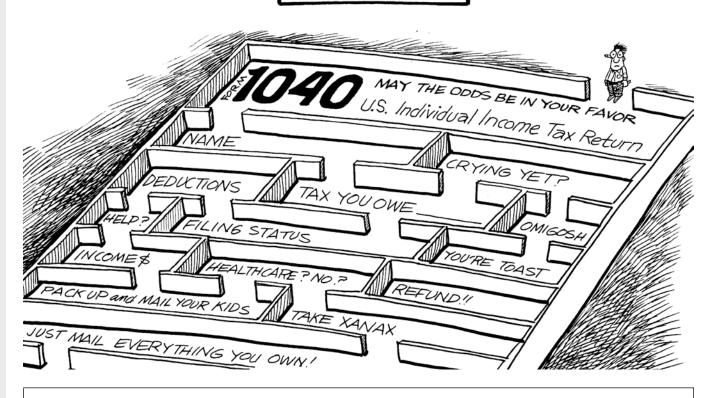
There were more major shifts, too. At one point last semester, an old friend wanted to come visit me at MIT. I told him that it would be best to postpone the visit a few months. Why? I didn't feel at home where I lived, so I was moving off-campus. I told my friend that it would be easier to visit me when we didn't have to go through security. At the time, it seemed like a simple constraint. Come to Boston in April, not February, because the weather will make you less miserable. Come to MIT when I live off-campus, because the security will make you less miserable. The difference is that there's little MIT can do about the weather.

Now, I feel far safer than I ever did on campus. Environment matters. Seeing "protective measures" everywhere creates a strong impression that the protection is needed, regardless of whether it actually is. Now that those are gone, I can appreciate the trustworthiness of my peers and community. These may seem like small changes, but the shift in how students perceive their living space — and their school — is dramatic.

Jade Philipoom is a member of the Class of 2017.







### **CORRECTIONS**

A guest column published Tuesday made references to MIT's parental leave policy that were misleading. MIT employees and MIT graduate students have separate parental leave policies, and the new benefit of five days of paid parental leave is in addition to substantial existing parental leave policies for employees. An updated version of the article online also makes note of MIT's existing maternity leave policies, which give female graduate students and employees up to two months of accommodation when they are expecting.

### **OPINION POLICY**

**Editorials** are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Will Conway, Editor in Chief Leon Lin, Managing Editor Anthony Yu, Executive Editor Tushar Kamath, and Opinion Editor Claire Lazar.

**Dissents** are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

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### **UPPERCUT** by Steve Sullivan





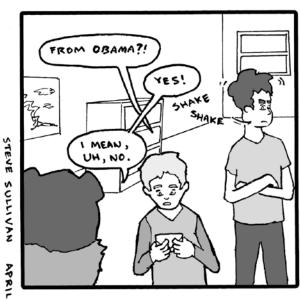




### UPPERCUT by Steve Sullivan













FUNFUNFUNFU

# FUNFUNFUNFUNFUNFU

### **Spring Sudoku**

7					1	5	4	
			5					9
4	5		2	9			3	
1				2		9		
			1		4			
		7		5				6
	8			1	9		7	2
2					5			
	6	1	4					5

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

### **Sunny Sudoku**

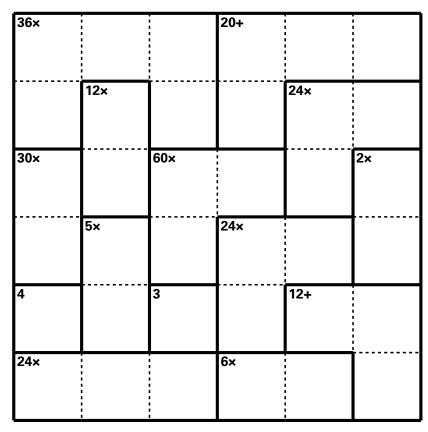
Solution, page 18

		4						
	1						3	4
8	3	7			2			5
	4	6		2	7		9	
			3	6	9			
	9		4	1		6	8	
4			7			1	<b>8 5</b>	3
<b>4 3</b>	5						7	
						4		

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

### Techdoku I

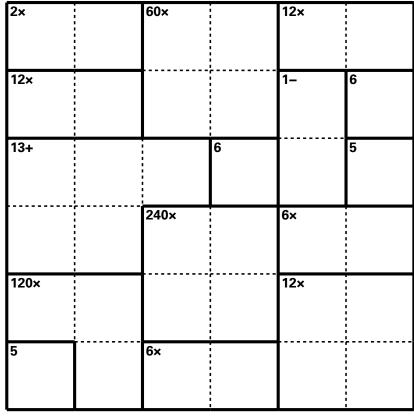
Solution, page 18



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

### Techdoku II

Solution, page 18



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

### Pair of Sixes by Gail Grabowski

### **ACROSS**

- 1 Plane pilot
- 6 Mix with a spoon
- 10 Competent
- 14 "You are not!" retort
- 15 Flying toy with a tail 16 University official
- 17 Basic concept in
- economics 20 Football six-pt. plays
- 21 Coffeehouse order
- 22 Takes chances
- 23 Farmland measure 24 Architect's drawing
- 26 Trash holder
- 29 Sports squad
- 30 Perform a part
- 33 Become inedible
- 34 Baby boys 35 Casual greeting
- 36 Sewing-kit items
- 39 Portions of corn
- 40 Annoys, informally
- 41 Demean
- 42 Fractions of a month: Abbr.

- 43 Preschool basics
- 44 Loses traction
- 45 Get to one's feet
- 46 Fissure
- 47 Got to one's feet 50 Use watercolors
- 52 Day before a holiday
- 55 Fairy-tale siblings
- 58 Not doing anything
- 59 Aware of
- 60 No later than
- 61 Picks up the tab
- 62 "Don't you wish!"
- 63 Smooths (out)

### **DOWN**

- 1 Clenched hand
- 2 Praise highly
- 3 Mischievous kids
- 4 Sixth sense, for short
- 5 Attendance-taking ritual
- 6 Hockey player's footwear
- 7 Windshield glare reducer
- 8 "Maybe, maybe not" 9 Color of Santa's suit

- 10 Guy who writes jingles
- 11 Grizzly, for one
- 12 Narrow road
- 13 Concludes
- 18 Knitting material
- 19 Dutch cheese
- 23 Corrosive compounds
- 25 Be durable
- 26 Good \_\_ (well-repaired)
- 27 Say something
- 28 Farmers tilling soil
- 29 Ice-cube utensils
- 30 In the lead
- 31 Run after
- 32 Ocean movements
- 34 Pesto-cooking vessels 35 Planet's path
- 37 Recedes
- 38 Not entirely wrong
- 43 Assistant
- 44 Perform in a choir
- 45 Valentine's Day flowers 46 Get \_\_ (throw out)
- 47 Cruise vessel 48 Cry of triumph
- 18 20 22 26 27 30 |31 |32 33 39 40 42 47 48 49 50 51 52 53 54 56
- 49 Merely

58

61

51 Prefix meaning "against"

59

62

- 52 Ending for kitchen or luncheon
- 53 Artery's opposite 54 Letters after kays

60

63

- 56 Mauna \_\_ macadamia nuts
- 57 Greeting-card holder: Abbr.

# FUNFUNFUNFUNFUN

### Technical Problems 3

Technical Problems is a weekly column consisting of puzzles and math problems intended to be accessible to undergraduates of all majors. The column features new problems each week as well as solutions to the problems posed two weeks earlier. The solutions to last week's problems will be included in the column next week. If you are interested in having one or more of your solutions published in the column, please send them to general@ tech.mit.edu.

### Problem 1

The password to a safe consists of seven different decimal digits. The safe will open if you enter seven different digits and one of them matches the corresponding digit of the password. Can you open this safe in fewer than seven attempts?

### Problem 2

A lattice point is a point with all integer coordinates. The two legs of a compass are located at distinct lattice points in the coordinate plane drawn on an infinite sheet of paper. The distance between the two legs cannot be changed. You are allowed to fix one of the legs and swing the other leg to another lattice point. Is it possible to switch the positions of the two legs after a finite number of steps?

### Problem 3

Does there exist an infinite sequence  $a_1$ ,  $a_2$ ,  $a_3$ , ... of 1s, 2s and 3s such that no contiguous block appears twice in a row? For example, neither "33" nor "132132" should appear.

Compiled and edited by Matthew Brennan.

### Solutions to Technical Problems from April 2

### Problem 1

Alice and Bob alternately mark the squares of a 4×4 square grid, with Alice going first. If a 2×2 sub-grid is completely marked after a player's turn, then he or she loses. Who can force a win, and what is the winning player's strategy?

Solution. Bob can guarantee a win with the following strategy. If Alice marks the *i*th square of a row, Bob marks the *i*th square of the row two rows away (e.g. Bob plays in the third row if Alice plays in the first and Bob plays in the second row if Alice plays in the fourth). If Bob were ever to complete a 2×2 sub-grid, some casework shows that a 2×2 sub-grid must already have been completed. Therefore Bob can never be the first player to complete a 2×2 sub-grid and will always win with this

Problem Source: Problem Solving Strategies by Arthur Engel

### Problem 2

A lattice point is a point with integer coordinates. Find the smallest positive integer n such that given any n lattice points in three-dimensional space, there are some two of these n points such that the segment joining them passes through another lattice point.

*Solution.* The answer is n = 9. First we show that any 9 lattice points  $(x_1, y_1, z_1)$ ,  $(x_2, y_2, z_2), ..., (x_9, y_9, z_9)$  in three dimensional space have the desired property. If e denotes even and o denotes odd, then each point is of one of the eight forms (e, e, e), (e, e, o), (e, o, e), (e, o, o), (o, e, e), (o, e, o), (o, o, e) or (o, o, o). Since there are 9 > 8 points, some two points  $(x_i, y_i, z_i)$  and  $(x_i, y_i, z_i)$  must be of the same form i.e. all of their coordinates must have the same parity. The midpoint of these two points must also be lattice point and therefore the segment joining them passes through another lattice point. To see that *n* must be at least 9, consider the unit cube of points with all of their coordinates equal to either 0 or 1. No segment joining any two of these points passes through another lattice point.

Problem Source: Brilliant.org

### **Problem 3**

There are 30 students, each of whom is either honest or a liar, sitting at a round

table. John, a teacher at their school, does not know who is honest and who is a liar, but he is looking to find an honest student. John asks each of them whether their right neighbor is honest or a liar. An honest student always answers correctly, while a liar can answer either correctly or incorrectly. John knows that the number of liars does not exceed L. What is the largest possible value of L for which John will always be able to find a student who he can deduce

*Solution.* The answer is L = 8. If there are at most L = 8 liars, then John can deduce that the rightmost student in the longest contiguous string C of students who call their neighbors honest must be

Suppose there is a situation where this strategy does not work. Let k denote the number of liars among the set S of students called liars and the students to the left of students called liars. Note that if a student calls the student to his or her right a liar, either that student or the student to his or her right must be a liar. Therefore kis at least half the number of students in S and therefore there are at most 2k students who call their neighbors liars. Thus there are at least 30 - 2k students who call their neighbors honest. Now consider a contiguous string of students who call their neighbors honest. The first student in this string must have been called a liar and thus either that student or the student to his or her left must be one of the liars counted in k. This implies that the number of contiguous strings of students who call their neighbors honest is at most k. Therefore the longest continuous string C must have length at least (30 - 2k)/k. If the rightmost student in this string were a liar, then the second rightmost student must also be a liar, as must be the third rightmost student. Continuing this logic yields that all students in C must be liars if the rightmost student were a liar. Therefore there must be at least (30 - 2k)/k + k liars which is at least 9 for integers k (minimized when k = 5, 6). This situation is therefore not possible since there are at most L = 8 liars. This proves that John's strategy must work.

To see that there is no strategy for L at least 9, consider the case in which every fifth student around the table is called a liar and the rest are called honest. It is possible that everyone tells the truth (that all six students called liars are liars) and therefore John cannot deduce that anyone called a liar is honest. It is also possible that any four consecutive students called honest are liars, the student after them called a liar is actually honest and that everyone else is called what they are. This would require a total of nine liars and is possible as long as L is at least 9. Therefore any student called honest could actually be a liar and there is no strategy where John can deduce that someone called honest is actually honest.

Problem Source: Russian Math Olym-

### Alice and Bob take turns marking squares in a 4×4 grid. Can Bob force Alice to complete a 2×2 block before he does?

### Problem 4

Sarah is playing a game similar to the board game Rush Hour on a board consisting of an  $m \times n$  square grid, where mand n are odd positive integers. The  $m \times n$ square board is initially tiled with nonoverlapping dominos such that only the upper-right square of the board is uncovered. Sarah is allowed to slide dominos into the single uncovered square and, in this way, move the uncovered square around the board. Prove that where Sarah can move the uncovered square does not depend on the initial tiling of the board.

Solution. Label the rows down the square grid from 1 to m and the columns from 1 to *n* from left to right. Call a square odd if it has coordinates (x, y) where x and y are both odd integers. It will be proven that regardless of how the square grid is tiled, Sarah can move the uncovered square exactly to the odd squares in the

Note that in any given move, Sarah moves the uncovered square exactly two units in one direction. Therefore since the uncovered square begins on the odd square (1, n), it only ever occupies odd squares. Now it will be shown that every odd square is reachable. Consider an odd square A and the domino covering A. The short end of this domino not bordering *A* borders another odd square *B*. Note that if *B* is ever empty, then Sarah can slide the domino into *B*, leaving *A* uncovered. For all such pairs *A* and *B* in the square grid, draw an arrow from the center of A to the center of *B*. Now every odd square other than the starting position (1, n) of the grid has exactly one arrow leaving it. Beginning at an arbitrary odd square C of the grid, follow the arrows beginning at this square until either there is no arrow to follow or we arrive at a square we have visited before. If there is no arrow to follow, we must be at the starting position (1, n) and the sequence of odd squares along the arrows we followed in reverse order gives a path along which Sarah can move the uncovered square from (1, n) to C. Otherwise there must exist a cycle of arrows, which will be shown to be impossible. Note that it suffices to prove that a cycle of arrows is impossible since then there must be a sequence of moves leaving the uncovered square in *C* for all odd squares C.

Suppose that there is a cycle of arrows. Let the value of the cycle be the number of unit squares of the grid completely contained inside the cycle. We note that the value of a cycle must always be odd. To see this, note that any cycle can be obtained as the perimeter of a region R obtained iteratively as follows: start with a 2×2 square with vertices at the centers of four odd squares and iteratively add more of these 2×2 squares along the perimeter of the region. The initial 2×2 cycle has value 1, and some casework shows that each  $2\times2$ square added to the region increases the value of the cycle either by 2 or 4. Therefore the value of any cycle is odd. However, since the  $m \times n$  square grid has been tiled by dominos, the squares inside any cycle must also be tiled by dominos and therefore even in number. This is a contradiction and therefore no cycle of arrows could have existed to begin with.

Problem Source: Russian Math Olympiad 1997

Compiled and edited by Matthew

### On Horseback by Fred Piscop

Solution, page 18

### **ACROSS**

- 1 Went away
- 5 Barbecue rods 10 Tableland
- 14 Contralto's delivery
- 15 Tex-Mex chip 16 Higher than
- 17 Radio-station personality
- 19 Look to be 20 Comedian's routine
- 21 Long and lean
- 22 Be durable
- 24 Me, in France 25 Open, as a gate
- 29 Price per pound, e.g.
- 34 Entryway
- 35 Wave's top
- 36 Letter after pi
- 37 Stetson-wearing loafer 41 CPR expert
- 42 Rubbed clean 43 Add to the payroll
- 44 Most hoarse-sounding 46 Blew a whistle
- 48 Moreover

- 49 Email nuisance

- 60 Obi-Wan or Luke
- 63 Go by horse
- 66 App buyer
- 67 Tapered off
- 68 Camp setup

### **DOWN**

- 1 Little shavers
- 2 Norse explorer
- 4 Diplomatic finesse
- 5 Ski-resort vehicle
- 7 "That's gross!"
- 8 Definite article
- 9 Tofu source
- 10 Tile art

- 51 Tomato concoction 54 Spotted wildcats
- 59 Escape hatch
- 64 Crop up
- 65 Leaping insect

- 3 Trawler's haul
- 6 Prepares to check out

- 11 Not bumpy
- 12 Hunt for

- 13 Green Berets' branch
- 18 Nursery-rhyme tumbler 21 State-run game
- 23 Castle towers
- 24 Assorted: Abbr.
- 25 Source of milk
- 26 Designer Kamali
- 27 Boxing matches 28 End of UNESCO's URL
- 30 Requirement
- 31 Planetary path
- 32 Beach locale
- 33 Fiddled (with) 35 Ticket writers
- 38 Farm animals
- 39 Headed for overtime 40 Question of identity
- 45 Rapid talk 46 Added (on)
- 47 Preindication 50 Self-assurance
- 51 Ecuador neighbor
- 52 Line of rotation
- 53 Competing team 55 Brit's elevator
- 14 15 16 17 19 18 20 22 29 30 25 | 26 | 27 | 28 34 36 38 | 39 41 42 43 44 48 55 | 56 | 57 | 58 52 53 60 61 62 63 64 65
- 56 Make eyes at 57 At another time 58 OR imperative
- 60 Facial feature 61 Notable period
- 62 Loud racket



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FRIDAY, APRIL 17, 2015 THE TECH 9

# Campus Preview Weekend

Interviews by Ray Wang and Photography by Jessica L. Wass

## The Tech Interviews Class of 2019 **Admits**



### What's caught your eye so far?

I really want to learn to play tennis in college, so I saw the tennis courts, and I was really excited that we would have the opportunity here.

### What did you get to see?

We tried to go to dorms, but I was with a group of people who wanted to go to different events. It's not such a bad thing because we got to talk and we got to see the campus. As we walked around, we could see the Charles River, so it was a good scenario.

### Where are you temped?

Beta Theta Pi, across the river. It's actually really nice! They've recently renovated the house.

### What have you explored so far?

Haven't had much chance to explore everything! I started off pretty rough, had to go to the medical center and get a syringe ... 'cause I recently got my wisdom teeth removed!



### Where are you staying?

I'm at the Kappa Sigma fraternity house. It's pretty great! My host is pretty cool too.

### What are some of your interests you plan to explore?

I'm planning to major in chemical engineering, so me and Sooraj signed up for the UROP tour, so we're pretty excited about that.



How have you liked CPW so far?

It's been really exciting, a lot of stuff going on at the same time! There's just a right balance where you can still do what you want and get a good experience without being, like, shoved in the face with too much.

### I noticed you guys were sitting here resting. Where did you just come from?

We just got back from the prefrosh welcome and we decided we'd try and schedule out tomorrow! We're planning on going to some entrepreneurship things tomorrow ... for the free stuff and the actual



### What's your favorite thing about the campus so far?

I just like the quirkiness of everything! You see a lot of people doing random things and they just don't care. Like if you see all the liquid nitrogen people wearing safety neon colors; it was really, really funny!

### What were they doing out there?

They were making ice cream — it was really good!



How many people are here from your school?

Where do you guys go to school?

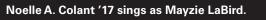
What's in your COOP bag?

Like ... 20-ish?

Stuyvesant High School, haha!

I bought a sweater, an MIT sweater, and then I bought a water bottle. The Stuyvesant girls' lacrosse team is called the Huskies, so I bought two Huskies. One's for my boyfriend; I just wanted to do something cute for him!





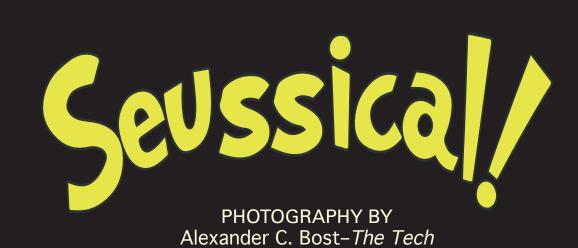


Jesse N. Orlowski '16, Joschua B. Scherrer '18, and Cole A. Graham '15, playing the Wickershams, sing during a rehearsal for Seussical on Wednesday night. NextAct, founded in 1985 and celebrating 30 years of performances this spring, performs an annual show during CPW in Next House's Tastefully Furnished Lounge.





Kristina S. Kim '17 and Isaac T. Yandow '15 sing with the cast.



The cast surrounds Kristina S. Kim '17 as Jojo.



Caralyn R. Cutlip '17, as Gertrude McFuzz, sings with the Bird Girls.



Zoe R. Sheinkopf '17 leads the cast of NextAct's Seussical as Sour Kangaroo.



Isaac T. Yandow '15 as Cat in the Hat.

12 THE TECH FRIDAY, APRIL 17, 2015

### **TV REVIEW**

### **Game of Thrones** returns for season 5

Premiere sets the field for big events to come

By Karleigh Moore

It's time to make good use of your HBO Go accounts — *Game of Thrones* season five launched this past Sunday, and if you haven't had a chance to see the premiere, you have a couple of days to catch up before episode 2 airs. "The Wars to Come" picks up right where season 4 left off, reminding us of the events that nudged Westeros into a pit of chaos while hinting at the turmoil to come.

"The Wars to Come" is an episode with dark themes (the usual murder, scheming, and betrayal we've come to expect from the series) and bright settings — it's even sunny at Castle Black! We catch up with characters, following many storylines, in King's Landing, The Wall, Meereen, The Vale, and other undisclosed locations. While it's not in the running for the most exciting episode of the series, the episode does a good job of setting the stage for the coming season. Nothing too unexpected happens, and no devastating information is uncovered. However, we certainly get the impression that huge plans are being set in motion, so the slow start feels more like building momentum than a lull in

We didn't meet anyone who struck me as a new key player, but audiences are reunited with many familiar faces and a stellar cast. Varys (Conleth Hill) and Tyrion (Peter Dinklage), two of the show's wittiest characters, journey across the Narrow Sea with hopes of rallying support for a suitable contender for the Iron Throne. The pair clearly has doubts about the possibility of redemption for the Seven Kingdoms and views their mission as a last Hail Mary. Meanwhile, Daenerys Targaryen (Emilia Clarke), known as the Mother of Dragons, can't be bothered with troubles in the West as she is occupied with rebellions and busy maintaining her rule throughout the Free Cities. In a memorable scene, Daenervs has to remind her new subjects that she is "not a politician, [she's] a queen" as they demand that she make concessions to appease the former slave masters.



Emilia Clarke plays Daenerys Targaryen in *Game of Thrones*.

North threaten Westeros with an impending apocalyptic terror, but everyone is too preoccupied with forwarding their own agendas to take the threat seriously. As the series constantly insinuates, "winter is coming," so hopefully the Seven Kingdoms will worry more about the White Walkers instead of political alliances and contested

If you've been following *Game of Thrones*, you already know that no character is untouchable, and I'm sure that season

lines of succession.

5 will continue to shock audiences with its unpredictable and anything-but-reassuring storytelling.

Game of Thrones: The Wars to Come
Directed by Michael Slovis
On HBO

### **TV REVIEW**

### Marvel's Daredevil: a Netflix original series

A superhero story for grown-ups; binge watching recommended

The episode opens in an unusual way

a haunting flashback that may explain

the roots of a particular familial animos-

ity. We are left to wonder how Westeros will

function with a young and inexperienced

king sitting the Iron Throne, with no fear-

some and respected grandfather to play

royal puppeteer. Marriage plans are cast

into doubt amid the confusion and redis-

tribution of power; Cersei Lannister (Lena

Headey) seems bereft without a plot or

two up her sleeve. Power struggles in The

By Karleigh Moore

ARTS EDITOR

If you've seen *House of Cards* or *Orange is the New Black*, then you know that Netflix isn't half bad at making awesome television series. On top of that, we all know that Marvel is pretty great too — whether you simply enjoy their movies or you're a die-hard comic book reader, who can resist a good

superhero story? Luckily for everyone eagerly awaiting *Avengers: Age of Ultron* or the next episode of ABC's *Agents of S.H.I.E.L.D*, Netflix is here to save the day and satisfy your Marvel cravings.

Get ready to binge watch *Daredevil*, a live-action Netflix original series based on the Marvel Comics character. Charlie Cox plays Matthew Murdock, a blind lawyer who moonlights as a New York City vigilan-

te, known as Daredevil. Elden Henson stars as Foggy Nelson, Matt's socially awkward yet sharp partner in, well, law. If you're skeptical about the quality of a superhero Netflix show, let me assure you, this series has potential. There's undeniable chemistry between the characters, and the show has plenty of intelligent and clever dialogue to keep the audience engaged between action sequences. The villains are deranged

and disturbingly stoic; it seems that performing evil deeds yields a high paycheck, so murder and mayhem are just part of a day's work. The show isn't as trite or as predictable as I would've expected — in fact, I think the show does a good job of keeping its cards close and revealing important clues at a pace that keeps us interested and on our toes.

Daredevil is TV-MA, so it's a lot darker than your average Marvel feature film. Expect action-packed scenes with a side of language and gore. While the show is certainly a little graphic (we see Daredevil himself nearly incapacitated with wounds), I wouldn't say that its violence is gratuitous. Right off the hat we can see Matt Murdock's moral struggles with balancing justice and vengeance, and these dark elements contrast well with ideas of self control and commitment to doing the right thing. But Matt Murdock isn't your overly glorified can-do-no-wrong hero; we can see from a series of flashbacks that he has skeletons in his closet, and he even claims to enjoy doling out justice with a good beating. While he seems to have good intentions, we aren't 100 percent convinced that he'll always do the right thing, which is sure to keep things interesting.

Daredevil is the first of four series and a mini-series that Marvel is pitching to various networks. Its first season premiered on Netflix this past Friday, and there are thirteen episodes to devour the next time a Netflix marathoning session is in order.



### Charlie Cox stars as Marvel's Daredevil.

**ISARTSARTSARTSAR** 

Marvel's Daredevil
Created by Drew Goddard
Written by Stan Lee, Bill
Everett, and Drew Goddard

### **Dropping the phone**

My journey as an advocate

By Meg Chuhran

"SAAM Says" is a collection of narratives by sexual assault survivors and victim advocates being published during MIT Sexual Assault Awareness Month. This is the second of four pieces in the series.

I was 23 and had only been in the field for a year when I look my first ever call on a sexual assault crisis hotline. I had been trained as a sexual assault crisis counselor, practiced going through various hotline situations with my boss, and talked with survivors in-person, but answering the hotline was completely different because it was just me on the phone with someone in crisis. All that kept running through my mind the first time the phone rang was "Don't say the wrong thing! Don't say the wrong thing! I was so nervous about being on the hotline, that when the phone finally did ring, I answered it and immediately dropped the phone on the ground.

After all of that anxiety and fear, it turned out to be a wrong number.

Later on, when I got my first real call, I was still nervous. I rushed through my practiced introduction and right into how I could help her - pretty much just listing all of the options available and focusing on not forgetting any of them. She interrupted me and told me she needed me to listen. I took a deep breath, and I did.

I didn't know it at the time, but those first two calls ended up shaping my entire approach to advocacy. My job has nothing to do with me: it's not about my worries or my agenda. It's about listening, about being there for a survivor or loved one in whatever way they need. Over the course of my career working with survivors of sexual assault and childhood sexual abuse, I've had moments that have forced me to slow down, re-evaluate, and remember the lessons from those first calls.

When I was leading support groups for adult survivors of childhood sexual abuse in Denver, I had a client in her 60s who had never told anyone what happened to her when she was a child, at that point more

than 50 years ago. I was the first person she ever told. When she left after our initial intake, I sat in my office and thought about the immense level of trust that she had placed in me and the incredible courage it took for her to share her story after so long.

People often want to know how it's possible for me not to get brought down or have a negative view of the world when I work with the topics of sexual assault and interpersonal violence every day. Truth be told, sometimes I do end the day sad or angry; it's hard to bear witness to the pain one person can inflict on another and not be impacted. But those are the rare days. Far more often, I leave amazed at the strength of the survivors I talk with, at the compassion of their loved ones who want to help, at the number of students organizing and attending events to end sexual violence. I'm not alone in what I do, and that makes it far easier and allows me to be more hopeful about this work.

Sometimes I think I do this work for selfish reasons. That may seem strange, but to me, being a part of someone's journey back to empowerment, back to a sense of safety, onward to survivorhood, is a blessing. It is a privilege to be a part of that process and to be trusted enough to hold some of the weight that comes with this type of pain. It is an honor to be an advocate, and something I will never take lightly.

I'm grateful to be a part of the MIT community and the Violence Prevention and Response (VPR) team. VPR is here to provide support to students, staff, faculty, partners and other members of our community. Our hotline is available 24/7 and answered by trained staff. Our services are 100 percent confidential, which means we never share anyone's information or experience with any person or office without that person's explicit permission. Our job is to listen, help each person find ways to take care of themselves, and advocate in whatever way is best for that person.

Please reach out if you or someone you know could use our help — I promise I won't drop the phone.

The VPR hotline is 617-235-2300.



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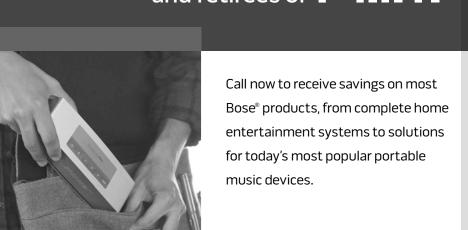
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14 THE TECH FRIDAY, APRIL 17, 2015

### Campus proposals include relocating museum, housing students in warehouse

MIT is weighing the pros and cons of housing undergraduates in the Metropolitan Storage Warehouse building, among other proposed ideas for revamping campus.

In an email to the MIT community on Tuesday, Chancellor Cynthia Barnhart, Provost Martin A. Schmidt, and Executive Vice President and Treasurer Israel Ruiz announced developments in the Kendall Square and east campus design process, and in the west campus planning study.

In the Kendall Square and east campus areas, the planning team aims to add "housing, connected open spaces, retail, innovation space, childcare, and commercial space," as well as move the MIT Museum into that area.

Part of the plan includes adding a new graduate housing facility, which will replace the Eastgate Apartments but will be built on a different site nearby. The facility is expected to open before Eastgate closes to prevent a housing shortage, and may accommodate more than twice the number of graduate students that Eastgate currently does. Specifically, the

planning team aims to accommodate 500-600 more graduate students across east and west campus.

The west campus planning study is also exploring the possibility of adding new graduate and undergraduate residences, renovating current residences, and incorporating more open spaces such as the landscape that is to be created on the site of Bexley Hall after it is demolished.

The email also mentioned potentially using the Metropolitan Storage Warehouse, located on Vassar Street, as "an exciting site for a mixed-use development." Some ideas for this space include an undergraduate residence, or a maker space on the first floor with collaborative working environments on the above

Barnhardt, Schmidt, and Ruiz also encouraged members of the MIT community to share their thoughts about campus planning by emailing mit2030info@mit.edu and attending community meetings.

–Alexandra Delmore

### **CPW** slide fun at Next House



Next House built a giant slide, nicknamed "Big Slipper," for CPW this year. The slide is about 20 feet tall and features angles of up to 55 degrees.

### Minor crash at W20 Saferide turnaround



ALEXANDER C. BOST—THE TECH

A Mercedes-Benz crashed into a temporary fence at the Saferide shuttle turnaround outside W20 on Sunday night at around 10 p.m.

### **Divers search for body in Charles**



A police diver finishes up after searching for a body in the Charles River around 10 a.m. on Wednesday, April 15.

# The MIT Climate Change Conversation \$1,500/Month Committee Wants to Hear From YOU!!!

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Open to all members of the MIT community - join a time or location that works for you.

- April 13th 12:00-1:00pm 4-237
- April 22nd 7:00-8:00pm W20-306
- April 28th 12:00-1:00pm E25-111
- May 6th 12:00-1:00pm E62-450
- May 7th 5:00-6:00pm 32-155

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Friday, April 17, 2015
The Tech 15

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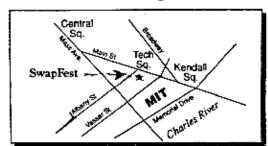
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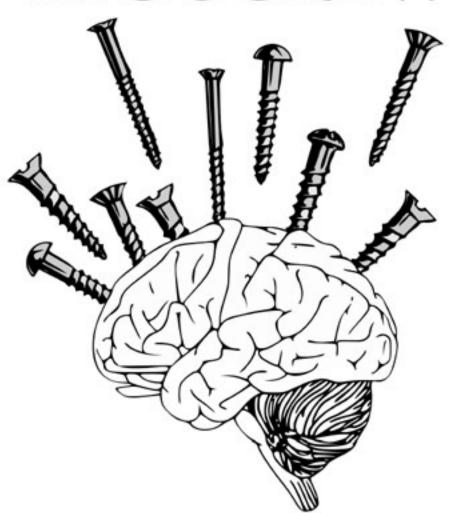






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# **BIG SCREW**



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### Putnam, from Page 1

year was 3 points out of 120, and many people get a score of zero. "I'd tell people interested in taking the Putnam to go for it and not worry about the competitive part; you should take it for the chance to work on fun math problems and discuss them afterwards," Sellke said.

Freshmen at MIT can pre-

pare for the Putnam by taking 18.A34 (Problem Solving Seminar) taught by Bjorn Poonen, a math professor and four-time Putnam Fellow himself.

The Fellows received \$2,500 each, and the scoring team members received \$1,000 each in addition to the \$25,000 that MIT was awarded.

—Sanjana Srivastava

### Much hinges on constitution at UA

### Accusations, resignations bring scrutiny & changes to document

UA, from Page 1

speech. Yet just minutes earlier, she had admitted that she "should have not acted with haste" when signing off on an unauthorized \$12,500 expenditure without consulting the council.

"The decision was especially hard given the type of person I am," she said of using the cash to bring Lil B to the Stata Center in November, where the rapper posed questions like "What does having money really mean?" and commented on the beauty and significance of everything from grass to the podium in 32-123.

"My decision was made to preserve the stability of your student government and to refocus the efforts of student leaders on initiatives on student life," she said of resigning.

Sharma's email to undergrads Wednesday announced that she would "step down" and "transition" to Davis - she had carefully avoided "resign" throughout the controversy.

"Technically you have to say you resign," John W. Halloran '15 said at the end of her speech at the meeting, then in his third day as the Judicial Board majority of one.

A unilateral ruling by Halloran last week cleared the way for a pending impeachment motion to come to a vote, but councillors never exercised the option in light of the pending resignation. The second of the two extant judicial board members, Moriel W. Levy '17, had

resigned from the board in protest of Halloran's move early Monday, observing: "Two of three is a majority; one is not. That is good math and good law."

The UA constitution was unclear on whether Sharma's resignation and Davis's ascension had to proceed via direct transfer to the newly elected administration or through a series of snap-resignations down the line of succession, with each UA executive assuming and subsequently leaving the organization's highest office. But these vexing details were resolved when, in deciding to proceed with the swearing in of Davis and Liu, Halloran invoked a little-known parliamentary maneuver: "Are you OK with it? I'm on board with it."

"Someone said a flaw in the constitution?" a student at the meeting offered in mock surprise at the improvised proceedings. Little sympathy was to be found for the document, which had been subjected to days of hair-splitting examination by councillors mulling their options for removing Sharma.

Davis, who was the only councillor to don a necktie for the occasion, saw through the passage of a constitutional amendment within the first 15 minutes and 37 seconds of his term. The amendment corrected the thresholds for removing a president to require a proportion of councillors rather than an artificially high absolute number. The change, of course, was made just days after the only time in years it would likely be relevant.

A sampling of people you'll meet during a typical dinner at The Tech:

Derek, Course 1 Will, Course 8 Anne, Course 17 Leon, Course 18 Jess, Course **9** Kath, Course **2** Jovce, Course 10 Jack, Course 19 Esme, Course 3 Tushar, Course 20 Vince, Course 12 Dohyun, Course f 4Anthony, Course 14 Stephen, 21/CMS Vivian, Course **5** Keith, Course 22 Austin, Course **6** Maggie, Course 15 Kali, Course 7 Marissa, Course 24 Chris, Course **16** 

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# Limited events for prefrosh post-1 a.m.

## LGBT group G@MIT is only group to secure a late-event exception

CPW, from Page 1

Many students are not in favor of this year's ban.

Senior House President Adrianna Rodriguez '16 said she would prefer that the ban extend from 3 a.m. to 9 a.m.

"I think that would be a bit more reasonable and more reflective of what our schedules are actually like, at least for a good number of Senior House residents," she said, adding that any night-time ban "leaves out a large portion of the MIT community that is actually nocturnal."

Only G@MIT's event "Super Secret Queer Time" has been granted an exception to take place after 1 a.m. According to Schmill, G@MIT argued that students needed a time outside the window of other events in order to feel comfortable attending.

A number of other events applied for exceptions, such as Firehose, Pinkie's Diner, and MacSim-Next Ultimate, but all were denied. The criteria used to determine which events receive an exception remain undisclosed.

Next House President Haley

Hurowitz '16 said: "The policy has changed the events Next House traditionally holds. The 1 [a.m.] rule means we cannot hold events as late"

"CPW can be incredibly overwhelming," she said. "I felt that pressure when I was a prefrosh. Although many prefrosh will probably find 'after hours' events or continue to hang out with others, I do feel like a sizable number will just go to bed early and miss that MIT experience. However, what convinced me to come to MIT was not the first two nights when I went to bed relatively early, but the last one when I stayed up till 8 a.m. talking to people I'm still friends with today."

Gaurav J. Singh '15, the Undergraduate Association's CPW Representative, believes that the policy will diminish the spirit of CPW for prefrosh who are awake late at night. "Prefrosh who are awake may experience difficulty finding something to do after 1 [a.m.]," he said.

"[M]any prefrosh will have a harder time finding available MIT students to talk to. I think the policy falsely gives the impression that MIT student life ends at 1 [a.m.]."

Solution to On Horseback

JEDIKNIGHT ARISE FLEA WANED TENT

Solution to Techdoku I

from page 6

### Solution to Pair of Sixes

Solution to Pair of Sixes														
from page 6														
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### Solution to Sunny Sudoku

from page 6

2	6	4	9	5	3	7	1	8
9	1	5	6	7	8	2	3	4
8	3	7	1	4	2	9	6	5
5	4	6	8	2	7	3	9	1
1	8	2	3	6	9	5	4	7
7	9	3	4	1	5	6	8	2
4	2	9	7	8	6	1	5	3
3	5	1	2	9	4	8	7	6
6	7	8	5	3	1	4	2	9

### Solution to Spring Sudoku

from page 6

7	9	2	3	6	1	5 7 6	4	8
6	1	3	5	4	8	7	2	9
4	5	8	5 2	9	7	6	3	1
1	4	5	7	2	6	9	8	3
9	3	6	1	8	4	2	5	7
8	2	7	9	5	3	4	1	6
5	8	4	6	1	9	3	7	2
2	7	9	8	3	5	1	6	4
3	6	1	7 1 9 6 8 4	7	2	8	9	5

### Solution to Techdoku II

from page 6

2	1	6	5	က	4
4	ക	2	1	5	6
3	2	1	6	4	5
 1	6	5	4	2	3
6	5	4	3	1	2
5	4	3	2	6	1

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20 THE TECH FRIDAY, APRIL 17, 2015

# RTS SPORTSSPORTSSPORTS

### **UPCOMING HOME EVENTS**

### Friday, April 17

Men's Tennis vs. New York University 5 p.m., duPont Tennis Courts

### Saturday, April 18

Track and Field Sean Collier Invitational 10:15 p.m., Steinbrenner Stadium

Baseball vs. Wheaton College 12 p.m., Briggs Field

### Sunday, April 19

Sailing vs. President's Trophy
Sailing vs. Thompson Trophy
Softball vs. Clark University
Softball vs. Clark University
2 p.m., Briggs Field
2 p.m., Briggs Field

### Tuesday, April 21

Softball vs. Tufts University 3 p.m., Briggs Field
Softball vs. Tufts University 5 p.m., Briggs Field

### Wednesday, April 22

Baseball vs. Western New England University 3:30 p.m., Briggs Field

Men's Tennis vs. Emerson College 4 p.m., duPont Tennis Courts

Men's Lacrosse vs. Wheaton College 7 p.m., Steinbrenner Stadium

# Baseball scores four times in first inning of 7-5 victory

MIT fends off WPI to improve to 9-3 in NEWMAC

By Phil Hess

MIT scored four times in the first inning and then held off WPI down the stretch to take 7-5 New England Women's and Men's Athletic Conference (NEWMAC)

baseball victory Tuesday afternoon. Hayden K. Cornwell '15 drove in three runs for the Engineers while Alex Venditti drove in a pair for WPI.

MIT (12-7, 9-3 NEWMAC) wasted lit-

tle time getting on the scoreboard in the first inning. Starter C.J. Doskocil recorded the first out for WPI (16-12, 7-7 NEWMAC), but then surrendered four straight hits to the Engineers, including run-scoring doubles to Parker A. Tew '15 and Na-

between the doubles and Robert R. Bishop '15 singled and eventually scored on a wild pitch to make it 4-0. WPI came back to make it a one-run game in the third when John Caliri led off with a double. An error put runners on the corners for Sean Greene who delivered an RBI base hit. A ground out and a wild pitch

thaniel H. Rodman '16. Cornwell added an RBI single

brought home two more runs for the Engineers to make it 4-3.

A pair of singles in the bottom of the fourth set up

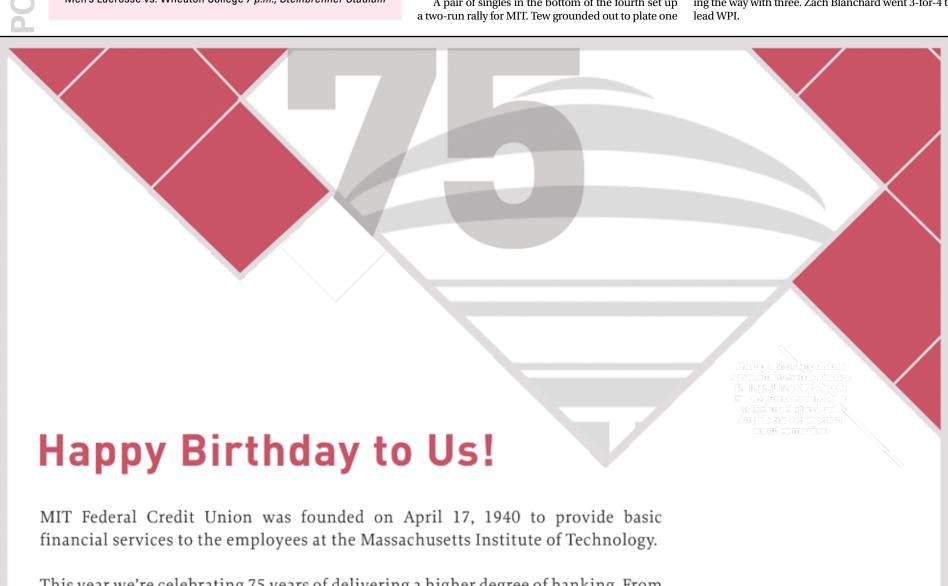
run before Cornwell came up with a two-out base hit to bring in another and make it 6-3. MIT added another run in the sixth when Cornwell drove in his third run of the afternoon with a sacrifice fly to center.

WPI came right back in the top of the seventh. With one down Nick Comei singled before Vinny D'Ambrosio drew a two out walk. That brought in Jason M. Morrison '17 out of the bullpen for MIT to face Venditti, who greeted him with a double to right that scored both runners.

From there the MIT bullpen got the job done, with Morrison recording the final out of the seventh and Alan Wang '16 coming in to pitch the final two innings for the Engineers. WPI threatened in the eighth, getting runners to second and third with two away, but Wang picked up a key strikeout to end the threat and then set the side down in order in the ninth to record the save.

Eric Tu '16, the second of four MIT pitchers on the day, received his first win of the season with 3.2 innings of one-hit, one-run relief. Wang allowed just one hit in his two innings on the mound, fanning five. Doskocil took the loss for WPI, going five innings and giving up six run on nine hits.

Tew, Cornwell, Rodman and freshman Austin M. Filiere '18 all had multiple hits for MIT, with Tew leading the way with three. Zach Blanchard went 3-for-4 to lead WPI



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